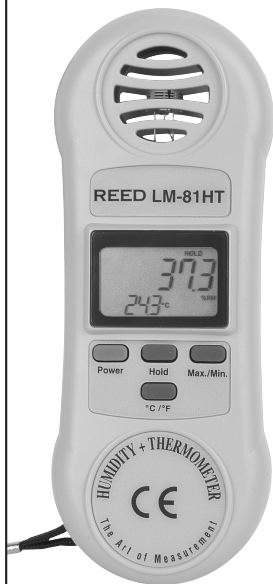


# REED

**T**equipment  
USA  
1-877-742-TEST (8378)

## Model LM-81HT

### Thermo-Hygrometer



## Instruction Manual

[www.reedinstruments.com](http://www.reedinstruments.com)

# Table of Contents

Features.....	2
Specifications.....	3
Instrument Description .....	4
Measuring Procedures .....	4
Additional Functions.....	4-5
<i>Hold Function</i> .....	4
<i>Data Record Function</i> .....	4
<i>Auto Power Off</i> .....	5
Battery Replacement.....	5

## Features

- Tiny bone shape with lightweight and small size case design are suitable for handling with one hand
- Wristlet design provides extra protection to the instrument especially for user one hand operation
- High precision thin-film capacitance humidity sensor with fast response to the humidity variety
- Built-in microprocessor circuit assures excellent performance and accuracy
- Concise and compact buttons arrangement, easy operation
- Memorize the maximum and minimum value with recall
- °C/°F selectable by pressing button on the front panel.
- Multi channels display for relative humidity and temperature measured values at the same time
- Hold function to freeze the current reading value

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# Specifications

## General Specifications

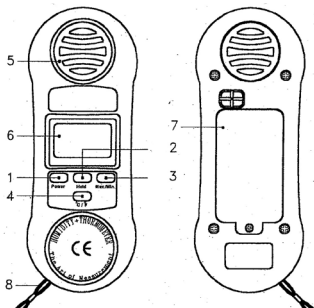
Display	8 mm LCD display
Measurement	Humidity and Temperature
Operating Humidity	Max. 80% RH.
Operating Temperature	0 to 50°C (32 to 122°F)
Over Input Display	Indication of “- - - -”
Power Supply	006P DC 9V battery (Heavy duty type)
Power Consumption	Approx. DC 6.2 mA
Weight	160g (battery included)
Dimensions	156 H x 60 W x 33 D mm (6.14 x 2.36 x 1.29”)
Accessories	Optional carrying case also available (Model CA-52A)

## Electrical Specifications (23 ± 5°C)

Measurement	Range	Resolution
Humidity	10 to 95 %RH	0.1 %RH
Temperature	32 to 122°F	0.1°F
(thermister)	0 to 50°C	0.1°C
Measurement	Range	Accuracy
Humidity	10 to 95 %RH	< 70% RH : ± 4 %RH ≥70% RH : (4 %rdg +1.2 %RH )
Temperature	32 to 122°F	± 2.5°F
(thermister)	0 to 50°C	± 1.2°C

# Instrument Description

- 1 - Power Button
- 2 - Hold Button
- 3 - Max./Min. Button
- 4 - °C/°F Button
- 5 - R.H./TEMP. Sensor
- 6 - LCD display
- 7 - Battery Compartment / Cover
- 8 - Wristlet



## Measuring Procedures

1. Power on the instrument by pressing the “Power Button” (#1, above).
2. At the mean time the reading value of relative humidity and temperature will be displayed on the LCD display. Pressing the “°C/°F Button” (#4, above) will select the temperature reading unit to °C or °F
3. When the meter be applied in a new environment, a few minutes are required to reach the stable situation

## Additional Functions

### Hold Function

Pressing the “Hold Button” (#2, above) will freeze the current value with a “HOLD” symbol on the display. Press again to release the hold function.

### Data Record Function

1. The Data Record function records & displays the maximum and minimum reading values. Start the Data Record function by pressing the “Max./Min. Button” (#3, above) once. There will be a “REC” symbol on the display.
2. With the REC symbol on the display:
  - (a) Press the “Max./Min. Button “ (#3, above) once and the “Max” symbol along with the maximum value will appear on the display.

*continued ...*

**NOTE:** If you intend to delete the maximum value, just press the “Hold Button” (#2, page 4) for a while, and then the display will show the “REC” symbol only & execute the memory function continuously.

- (b) Press the “Max./Min. Button” again, the “Min” symbol along with the minimum value will appear on the display.


**NOTE:** If you intend to delete the maximum value, just press the “Hold Button” (#2, page 4) for a while, and then the display will show the “REC” symbol only & execute the memory function continuously.

- (c) To exit the memory record function, press the “Max./Min. Button” continuously for at least 2 seconds. The display will revert to the current reading.

## **Auto Power Off**

In order to prolong the battery life, the instrument has “Auto Power Off” function. The meter will switch off automatically if no buttons are pressed for around 10 minutes.

## **Battery Replacement**

1. When the left corner of the LCD display shows the low battery symbol “”, this indicates that replacement of the battery is then needed. *However specification measurements could still be taken for another few hours before the meter becomes inaccurate.*
2. Open the Battery Cover (#7, page 4) at the back of the meter and remove the battery.
3. Replace with a 9V battery (alkaline or heavy-duty type) and reinstall the cover.

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## Notes



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